PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 5 :		(11) International Publication Number:	WO 93/13168
C08L 25/00, 51/04	A1	(43) International Publication Date:	8 July 1993 (08.07.93)

(21) International Application Number: PCT/US92/09091

(22) International Filing Date: 27 October 1992 (27.10.92)

(30) Priority data:
07/811,350 20 December 1991 (20.12.91) US
07/859,207 27 March 1992 (27.03.92) US

(60) Parent Application or Grant
(63) Related by Continuation
US 07/859,207 (CIP)
Filed on 27 March 1992 (27.03.92)

(71) Applicant *(for all designated States except US)*: THE DOW CHEMICAL COMPANY [US/US]; 2030 Dow Center, Abbott Road, Midland, MI 48640 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)* : SWARTZMILLER, Steven, B. [US/US]; 2901 Valorie Lane, Midland, MI 48640 (US). DONALD, Robert, J. [US/US]; 5503 Winchester Court, Midland, MI 48640 (US). BONEKAMP, Jeffrey, E. [US/US]; 2901 Braley Court, Midland, MI 48640 (US).

(74) Agent: DELINE, Douglas, N.; The Dow Chemical Company, Patent Department, P.O. Box 1967, Midland, MI 48641-1967 (US).

(81) Designated States: AU, CA, JP, KR, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE).

Published
With international search report.

(54) Title: THERMOFORMABLE, CHEMICAL RESISTANT POLYMER BLENDS

(57) Abstract

A thermoformable chemical resistant polymer blend, useful in the preparation of refrigerator and freezer liners comprising: A) from 45 to 70 parts by weight impact modified monovinylidene aromatic polymer, comprising from 1 to 25 weight percent of a rubber and 75 to 99 weight percent of a monovinylidene aromatic polymer matrix having a molecular weight (Mw) from 50,000 to 400,000, said weight percents being based on the total weight of said impact modified, vinylaromatic polymer; B) from 15 to 40 parts by weight of an olefin polymer, selected from the group consisting of homopolymers of ethylene or propylene and copolymers of ethylene with one or more $C_{4-8}\alpha$-olefins; and C) from 5 to 25 parts by weight of a compatibilizing polymer, adapted to increase interfacial adhesion between components A) and B), components A) and B) or components A), B) and C) existing in said blend as co-continuous phases, and the sum of A), B) and C) being 100 parts.